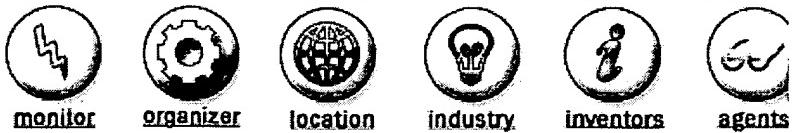


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Method and apparatus for determining vehicle operating conditions and providing warning or intervention in response to conditions



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1. A control system for a vehicle comprising: a GPS system generating a vehicle position for a vehicle relative to a surface; a plurality of driver inputs; a plurality of vehicle controller coupled to the GPS system, the plurality of driver inputs and the plurality of vehicle controller determining a predicted path in response to the plurality of vehicle inputs and a desired path in response to the GPS system, said controller performing a comparison of the predicted path and the desired path, said controller generating a warning in response to the comparison.

2. A control system as recited in claim 1 wherein said controller performs the comparison based on the colinearity of a confidence level.

3. A control system as recited in claim 1 wherein said controller performs the comparison based on a linear regression model, said threshold corresponding to an estimated error.

4. A control system as recited in claim 1 wherein the linear regression model includes angle, yaw angle and vehicle speed.

5. A control system as recited in claim 1 wherein the plurality of vehicle input

20. A control system as recited in claim 19 wherein the linear regression model includes pitch angle, yaw angle and vehicle speed.

21. A method of controlling an automotive vehicle comprising: generating a vehicle signal for a vehicle relative to a surface; generating a plurality of driver inputs and a plurality of vehicle inputs; determining a predicted path in response to the plurality of driver inputs and the vehicle inputs and a desired path in response to the vehicle position; comparing the predicted path and the desired path; and generating a control signal in response to the comparison.

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Click on the above for other options relating to this Method and apparatus for determining vehicle operating conditions and providing a warning or intervention in response to the patent application.

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###

Previous Patent Application:

Handheld computer based system for collection, display and analysis of engine operating data

Next Patent Application:

System and method for driving portable multimedia player

Industry Class:

Data processing: vehicles, navigation, and relative location

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Handheld computer based system for collection, display and analysis of engine/vehicle data

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A novel and improved engine data system for collecting, displaying and analyzing vehicle data is provided. The system advantageously results in a more effective, convenient and efficient method of monitoring and processing vehicle data. The vehicle data system includes a computer containing operating system software adapted to operate the handheld computer with a data protocol different from a vehicle bus protocol and a handheld microprocessor having its own data protocol different from the operating system software. The system importantly includes an adapter for connecting between a vehicle bus connector and an external data port provided on the handheld computer which is physically incompatible with the engine bus connector. The adapter includes a connection with the external data port, a bus compatible connector for connecting to the vehicle bus connector, a battery power supply separate from the power supply of the handheld computer, a microprocessor powered by the battery power supply and connected via the bus compatible connector for protocol conversion of the data received from the vehicle bus to a data pathway between the handheld computer and the vehicle data adapter system for creating a data pathway between the handheld computer while determining the start and stop of messages received from the vehicle bus. The adapter converts message identifiers to the engine data so as to minimize the required data processing by the handheld computer. (SCROLL BELOW TO READ THE REST OF THE PATENT...)

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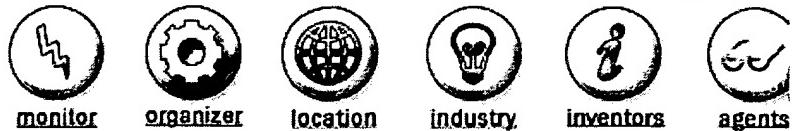
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System and method for driving portable multimedia player



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A system for driving a mobile multimedia player where a mobile disk driver p
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mobile multimedia player, OS level control and control with a manager tool c
the mobile multimedia player can correspond to the mobile disk driver and the
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Agent: [Jonathan Y. Kang, Esq.](#) [Lee, Hong, Degerman, Kang & Schmadeka](#) -]

Inventors: [Dong Chul Kim](#), [Seak Woo Cho](#)

Class: 701001000 (USPTO), G06F007/00 (Intl Class)

[Brief Patent Description](#) - [Full Patent Description](#) - [Patent Application Claim](#)

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] Pursuant to 35 U.S.C. .sctn. 119(a), this application claims the benefit o
right of priority to Korean Application No. 10-2003-74731, filed on Oct. 24, 2
is hereby incorporated by reference herein in its entirety.



Application Number

IDS Flag Clearance for Application

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Interference Number:

Unmatched Petition: **NO**L&R Code: Secrecy Code: **1**Third Level Review: **NO** Secrecy Order: **NO**Title of Invention: **METHOD AND APPARATUS FOR DETERMINING VEHICLE
OPERATING CONDITIONS AND PROVIDING A WARNING OR INTERVENTION IN
RESPONSE TO THE CONDITIONS**

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